

FORM PTO-1449

**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION PURSUANT TO  
37 CFR §1.97 & 1.98**

Docket Number: 4015-981  
Serial Number: 09/915,895  
Applicant: Paul W. Dent  
Filing Date: December 5, 2001  
Group: 2680 2681

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DEC 20 2001

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U. S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subcl	Filing Date	
							If Approp.	
W.D.	A	5,481,572	1996	Skold et al.				
W.D.	B	5,499,272	1996	Bottomley				
W.D.	C	5,594,941	1997	Dent				
W.D.	D	5,619,503	1997	Dent				
W.D.	E	5,631,898	1997	Dent				
W.D.	F	5,642,358	1997	Dent				
W.D.	G	5,724,666	1998	Dent				
W.D.	H	5,812,935	1998	Kay				
W.D.	I	5,812,947	1998	Dent				
W.D.	J	5,845,199	1998	Longshore				
W.D.	K	5,848,060	1998	Dent				
W.D.	L	5,867,791	1999	Chambert				
W.D.	M	5,883,888	1999	St-Pierre				

FOREIGN PATENT DOCUMENTS

	Patent No.	Date	Name	Class	Subcl	Translation	
						Yes	No

OTHER DOCUMENTS (including author, title, date, pages, etc.)

W.D.	1	<i>Initial Estimation of Communication Efficiency of Indoor Wireless Channels</i> , G. J. Foschini and R. A. Valenzuela, Wireless Networks 3, pp. 141-154, 1997; Lucent Technologies, Bell Labs Innovations, Crawford Hill Laboratory, Holmdel, NJ 07733, USA					
W.D.	2	<i>On Limits of Wireless Communications in a Fading Environment When Using Multiple Antennas</i> , G. J. Foschini and M.J. Gans, Wireless Personal Communications, Vol. 6 (No.3), pp. 311-335, Kluwer Academic Publishers, March, 1998; Lucent Technologies, Bell Labs Innovations, Crawford Hill Laboratory - R137, 791 Holmdel-Keyport Road, Holmdel, NJ 07733-0400, USA					

Willie J. Daniel, Jr. 05/28/2004



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Examiner					Filing Date		
Initial		Patent No.	Date	Name	Class	Subcl	If Approp.
W.D.	N	5,909,460	1999	Dent	-	-	
W.D.	O	5,930,248	1999	Langlet et al.	-	-	
W.D.	P	5,940,742	1999	Dent	-	-	
W.D.	Q	5,963,874	1999	Mahler	-	-	
W.D.	R	5,991,282	1999	Langlet et al.	-	-	
W.D.	S	6,006,075	1999	Smith et al.	-	-	
W.D.	T	6,081,566	2000	Molnar et al.	-	-	
W.D.	U	6,088,593	2000	Dent	-	-	
W.D.	V	6,104,933	2000	Frodigh et al.	-	-	
W.D.					-	-	

EXAMINER

W.D. Dent, H.

DATE CONSIDERED

05/28/2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation not in conformance and not considered. Include copy of this form with next communication to the applicant.



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Applicant:	
DENT	
Filing Date:	Group:
July 26, 2001	2681 2686

**U. S. PATENT DOCUMENTS**

Examiner						Filing Date		
Initial	Patent No.	Date	Name	Class	Subcl	If Approp.		
WJ	A 6,067,324	5/00	Harrison					

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**FOREIGN PATENT DOCUMENTS**

						Translation		
	Patent No.	Date	Name	Class	Subcl	Yes	No	
WJ	B WO 01 35548 A	5/01	Arraycomm Inc					
WJ	C WO 98 09381 A	3/98	Leland Stanford Junior University					

**OTHER DOCUMENTS** (including author, title, date, pages, etc.)

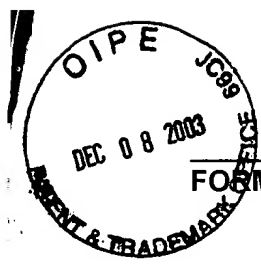

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William J. Daniel, Jr.

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U. S. PATENT DOCUMENTS

Examiner						Filing Date	
Initial	Patent No.	Date	Name	Class	Subcl	Yes	No
WS	A 6144711	2000	Pollack, Michael A et al				
WS	B 6473467	2002	Wallace et al				
WS	C 6434366	2002	Harrison et al				
WS	D 4995057	1991	Chung, Hong Y				
WS	E 5887027	1999	Cohen, Herbert B et al				

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FOREIGN PATENT DOCUMENTS

						Translation	
	Patent No.	Date	Name	Class	Subcl	Yes	No
WS	F EP 1087545	2001	University Singapore				
WS	G WO 9837671	1998	Globespan Technologies Inc				
WS	H WO 0197474	2001	Mitsubishi Electric Corp				
WS	I EP 1067710	2001	CIT Alcatel				
WS	J EP 1207645	2002	Lucent Technologies Inc				
WS	K EP 0936781	1999	CIT Alcatel				
WS	L EP 1075122	2001	Mitsubishi Electric Inf Tech				
WS	M WO 0199453	2001	Matsushita Electric Ind Co Ltd				
WS	N WO 9921375	1999	Ericsson Telefon AB				

OTHER DOCUMENTS (including author, title, date, pages, etc.)

WS	O	Ying-Chang, Liang et al: "Transmit Antenna Array Techniques for Cellular CDMA Systems" Personal, Indoor and Mobile Radio Communications, 1998. The Ninth IEEE International Symposium on Boston, MA, USA, 8-11 Sept. 1998, New York, NY, USA < IEEE, US, 8 September 1998, pages 1396-1400, XP010314608 ISBN: 0-7803-4872-9
WS	P	Kawakami E et al: "Multi-Stage Interference Canceller Systems With Accurate Radio Channel Estimation Under Fading Environment" 1997 IEEE 6 <sup>th</sup> International Conference on Universal Personal Communication Record. San Diego, 12-16 Oct. 1997, IEEE International Conference on Universal Personal Communications, New York, IEEE, US, vol. 2 conf. 6, 12 October 1997, pages 475-479, XP010248754 ISBN: 0-7803-3777-8

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